

THUNDERSTORMS.

Description of the more severe thunderstorms reported for the month is given under "Local storms."

Thunderstorms were reported as follows: East of the Rocky Mountains they were reported in the greatest number of states, 38, on the 8th; in 35 on the 15th and 26th; in 34 on the 3d and 17th; in 32 on the 1st, 5th, and 6th; in 31 on the 2d, 16th, and 25th; in 20 to 30 on the 4th, 7th, 9th, 10th, 12th, 13th, 14th, 18th, 19th, 22d, and 27th to 31st; and in 10 to 19 on the 11th, 20th, 21st, 23d, and 24th. There were no dates on which thunderstorms were reported in less than 10 states.

East of the Rocky Mountains thunderstorms were reported on the greatest number of dates, 31, in Florida and Louisiana; on 20 to 30 in Alabama, Arkansas, Georgia, Illinois, Iowa, Kansas, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New York, North Carolina, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Virginia, and West Virginia;

on 10 to 19 in Connecticut, Delaware, Indiana, Kentucky, Maine, Maryland, Massachusetts, Montana, New Hampshire, New Jersey, North Dakota, Ohio, Vermont, and Wisconsin; on 9 in Oklahoma and Rhode Island; on 8 in the District of Columbia; and on 2 in Indian Territory.

West of the Rocky Mountains thunderstorms were reported in Arizona on the 2d to 7th, 9th, 11th to 24th, and 28th to 31st; in California on the 10th, 12th, 16th, 19th, 20th, 21st, 23d, 24th, and 25th; in Colorado on the 1st, 2d, 3d, 5th to 14th, and 17th to 31st; in Idaho on the 8th, 20th, 22d, 26th, 27th, 28th, and 31st; in Nevada on the 19th to 28th; in New Mexico on the 2d, 3d, 7th to 13th, 15th to 18th, 21st, 26th, 28th, 29th, and 31st; in Oregon on the 2d, 10th, 21st, 26th, 28th, 30th, and 31st; in Utah on the 9th, 10th, 11th, 13th, 15th, 19th to 28th, and 31st; in Washington on the 2d, 8th, 9th, 13th, 15th, 21st, 22d, 29th, 30th, and 31st; and in Wyoming on the 4th, 5th, 6th, 11th, 13th, 14th, 21st, 22d, 23d, and 25th to 28th.

STATE WEATHER SERVICES.

[Temperature in degrees Fahrenheit; precipitation, including melted snow, in inches and hundredths.]

The following extracts and summaries are republished from reports for July, 1893, of the directors of the various state weather services:

ALABAMA.

Temperature.—The mean was 0.2 below the normal; maximum, 103, at Newburg, 28th; minimum, 60, at Brewton, 18th; greatest monthly range, 42, at Brewton; least monthly range, 22, at Livingston and Pushmataha.

Precipitation.—The average was nearly 1.00 below the normal; greatest monthly, 12.22, at Healing Springs; least monthly, 1.10, at Claiborne.

Wind.—Prevailing direction, southwest.—*W. M. Dudley, Observer, Weather Bureau, Montgomery, director.*

ARIZONA.

Temperature.—Maximum, 118, at Buckeye, 30th; minimum, 42, at Whipple Barracks, 1st; greatest monthly range, 56, at Buckeye; least monthly range, 33, at Saint Helenas Ranch.

Precipitation.—Greatest monthly, 6.47, at Wilgus; least monthly, 0.50, at Yuma.

Wind.—Prevailing direction, southwest.—*W. Burrows, Observer, Weather Bureau, Tucson, director.*

ARKANSAS.

Temperature.—The mean was 0.5 above the normal; maximum, 103, at Hot Springs, 28th; minimum, 59, at Marshall, 19th; greatest monthly range, 43, at Hot Springs; least monthly range, 26, at Greenville, Miss.

Precipitation.—The average was 1.12 below the normal; greatest monthly, 7.81, at Rogers; least monthly, 0.51, at Ozark.

Wind.—Prevailing direction, south.—*F. H. Clarke, Local Forecast Official, Weather Bureau, Little Rock, director.*

CALIFORNIA.

Temperature.—The mean was 2.0 below the normal; maximum, 122, at Volcano Springs, 10th; minimum, 30, at Cisco, 11th; greatest monthly range, 72, at San Ardo; least monthly range, 11, at Poway.

Precipitation.—The average was 0.02 above the normal; greatest monthly, 1.65, at Julian; least monthly, 0.00, at a number of stations.

Wind.—Prevailing direction, west.—*J. A. Barwick, Observer, Weather Bureau, Sacramento, director.*

COLORADO.

Temperature.—The mean was 1.0 above the normal; maximum, 105, at Minneapolis, 6th; minimum, 28, at Breckenridge, 17th.

Precipitation.—The average was about 0.27 below the normal; greatest monthly, 9.50, at River Bend; least monthly, 0.11, at Grand Junction.

Wind.—Prevailing direction, west.—*J. J. Gilligan, Observer, Weather Bureau, Denver, director.*

FLORIDA.

Temperature.—The mean was about 1.0 above the normal; maximum, 101, at Mullet Key, 18th, and at Bristol, 26th; minimum, 63, at Green Cove Springs, 14th; greatest monthly range, 35, at Plant City; least monthly range, 18, at Key West.

Precipitation.—The average was about 3.00 below the normal; greatest monthly, 12.56, at Oxford; least monthly, 1.20, at Mullet Key.

Wind.—Prevailing direction, southeast.—*E. R. Demain, Observer, Weather Bureau, Jacksonville, director.*

GEORGIA.

Temperature.—Maximum, 108, at Cordele, 25th; minimum, 52, at Dia-

mond, 13th; greatest monthly range, 49, at Griffin; least monthly range, 18, at Hephzibah.

Precipitation.—Greatest monthly, 8.21, at Darien; least monthly, 0.86, at Newman.

Wind.—Prevailing direction, west.—*Park Morrill, Local Forecast Official, Weather Bureau, Atlanta, director.*

IDAHO.

Temperature.—Maximum, 104, at Payette, 20th; minimum, 22, at Bonanza City, 7th; greatest monthly range, 71, at Bonanza City; least monthly range, 47, at Kootenai.

Precipitation.—Greatest monthly, 0.94, at Bonanza City; least monthly, trace, at Idaho Falls.

Wind.—Prevailing direction, southwest.—*J. H. Smith, Observer, Weather Bureau, Idaho Falls, director.*

ILLINOIS.

Temperature.—The mean was 2.0 above the normal; maximum, 102, at McLeansboro, 13th, and at Rantoul, 14th; minimum, 49, at Dixon, 3d.

Precipitation.—The average was 1.26 below the normal; greatest monthly, 4.86, at Oregon; least monthly, trace, at Kankakee.

Wind.—Prevailing direction, southwest.—*John Craig, Observer, Weather Bureau, Springfield, director.*

INDIANA.

Temperature.—The mean was 3.3 above the normal; maximum, 100, at Angola, 13th; minimum, 45, at Columbia City, 4th; greatest monthly range, 50, at Columbia City and Delphi; least monthly range, 24, at Columbus.

Precipitation.—The average was 1.30 below the normal; greatest monthly, 4.77, at Mount Vernon; least monthly, 0.03, at Logansport.

Wind.—Prevailing direction, southwest.—*Prof. H. A. Huston, Lafayette, director; C. F. R. Wappenhans, Local Forecast Official, Weather Bureau, assistant.*

IOWA WEATHER AND CROP SERVICE.

Temperature.—The mean was 1.5 above the normal; maximum, 102, at Ames (near), 13th, and at Atlantic, 14th; minimum, 47, at Atlantic, 3d, and at Sibley, 8th; greatest monthly range, 55, at Atlantic; least monthly range, 27, at Maquoketa.

Precipitation.—The average was slightly below the normal; greatest monthly, 8.84, at Clarinda; least monthly, 1.49, at Oskaloosa.—*J. R. Sage, Des Moines, director; G. M. Chappel, Local Forecast Official, Weather Bureau, assistant.*

KANSAS.

Temperature.—The mean was 0.8 above the normal; maximum, 110, at Kiowa, 30th; minimum, 47, at Washington, 7th; greatest monthly range, 56, at Minneapolis; least monthly range, 31, at Lawrence.

Precipitation.—The average was 0.42 above the normal; greatest monthly, 9.28, at Oberlin; least monthly, 0.37, at Grenola.

Wind.—Prevailing direction, south.—*T. B. Jennings, Observer, Weather Bureau, Topeka, director.*

KENTUCKY.

Temperature.—The mean was normal; maximum, 101, at Harrodsburg, 24th, and at Princeton, 28th; minimum, 50, at Louisa, 28th; greatest monthly range, 49, at Louisa.

Precipitation.—The average was 0.37 below the normal; greatest monthly, 8.28, at Middlesboro; least monthly, 1.09, at Paducah.

Wind.—Prevailing direction, southwest.—*Frank Burke, Local Forecast Official, Weather Bureau, Louisville, director.*

LOUISIANA.

Temperature.—The mean was 0.8 above the normal; maximum, 102, at Oxford, 29th and 31st, and at Schriever, 25th; minimum, 61, at Winnshoro, 22d and 23d; greatest monthly range, 39, at Liberty Hill; least monthly range, 18, at Port Eads.

Precipitation.—The average was 1.20 below the normal; greatest monthly, 9.49, at Amite; least monthly, 0.00, at Many.

Wind.—Prevailing direction, south.—*R. E. Kerkam, Local Forecast Official, Weather Bureau, New Orleans, director.*

MICHIGAN.

Temperature.—The mean was 0.5 below the normal; maximum, 100, at Berrien Springs (a), 13th; minimum, 33, at Paris, 6th; greatest monthly range, 60, at Mottville; least monthly range, 32, at Olivet.

Precipitation.—The average was 0.35 below the normal; greatest monthly, 5.46, at Boon; least monthly, 0.86, at Highland Station.

Wind.—Prevailing direction, southwest.—*E. A. Evans, Local Forecast Official, Weather Bureau, Detroit, director.*

MINNESOTA.

Temperature.—The mean was 3.2 above the normal; maximum, 104, at Farmington, 23d; minimum, 39, at Sandy Lake Dam, 8th; greatest monthly range, 59, at Crookston; least monthly range, 39, at Rolling Green.

Precipitation.—The average was 0.55 below the normal; greatest monthly, 7.36, at Morris; least monthly, 1.24, at Granite Falls.

Wind.—Prevailing direction, northwest.—*E. A. Beals, Observer, Weather Bureau, Minneapolis, director.*

MISSISSIPPI.

Temperature.—The mean was 0.8 above the normal; maximum, 108, at Columbus, 28th; minimum, 54, at Corinth, 10th; greatest monthly range, 46, at Corinth; least monthly range, 17, at Biloxi.

Precipitation.—The average was 0.20 below the normal; greatest monthly, 9.52, at Crystal Springs; least monthly, 1.20, at Palo Alto.

Wind.—Prevailing direction, southeast.—*R. J. Hyatt, Local Forecast Official, Weather Bureau, Vicksburg, director.*

MISSOURI.

Temperature.—The mean was about normal; maximum, 103, at Sarcoxie, 28th; minimum, 51, at Panacea, 11th; greatest monthly range, 48, at Langdon; least monthly range, 27, at Saint Louis.

Precipitation.—The average was 0.98 above the normal; greatest monthly, 18.30, at Lexington; least monthly, 0.30, at Oak Ridge.

Wind.—Prevailing direction, south and southwest.—*J. R. Rippey, Secretary, State Board of Agriculture, Columbia, director; H. A. McNally, Observer, Weather Bureau, assistant.*

NEBRASKA.

Temperature.—Maximum, 110, at Indianola, 15th; minimum, 41, at Beaver City, 9th; greatest monthly range, 61, at Beaver City; least monthly range, 33, at Nebraska City.

Precipitation.—Greatest monthly, 6.43, at Creighton; least monthly, 0.51, at Nesbit.

Wind.—Prevailing direction, southeast.—*George E. Hunt, Local Forecast Official, Weather Bureau, Omaha, director.*

NEVADA.

Temperature.—The mean was 2.5 below the normal; maximum, 110, at Golconda, 19th; minimum, 24, at Stofel, 7th, and at Monitor Ranch, 15th.

Precipitation.—The average was 0.11 below the normal; greatest monthly, 1.83, at Palmetto; least monthly, 0.00, at Elko, Mill City, and Halleck.

Wind.—Prevailing direction, southwest.—*Prof. Charles W. Friend, Carson City, director; F. A. Carpenter, Observer, Weather Bureau, assistant.*

NEW ENGLAND.

Temperature.—The mean was 0.6 below the normal; maximum, 98, at Easton, 2d; minimum, 36, at West Milan, 10th and 19th; greatest monthly range, 57, at Farmington; least monthly range, 26, at Block Island.

Precipitation.—The average was 1.98 below the normal; greatest monthly, 4.77, at Wells and Enosburg Falls; least monthly, 0.90, at Clinton.

Wind.—Prevailing direction, southwest.—*J. Warren Smith, Observer, Weather Bureau, Boston, director.*

NEW JERSEY.

Temperature.—The mean was 0.6 below the normal; maximum, 102, at Vineland, 26th, and at Salem, 27th; minimum, 40, at Charlotteburg, 25th; greatest monthly range, 55, at Charlotteburg and Cape May; least monthly range, 35, at Atlantic City.

Precipitation.—The average was 1.60 below the normal; greatest monthly, 4.63, at Oceanic; least monthly, 1.26, at Cape May.

Wind.—Prevailing direction, southwest.—*E. W. McGann, Observer, Weather Bureau, New Brunswick, director.*

NEW MEXICO.

Temperature.—The mean was slightly below the normal; maximum, 107,

at Gallinas Spring, 4th; minimum, 35, at Fort Wingate, 27th; greatest monthly range, 63, at Los Lunas; least monthly range, 33, at La Luz.

Precipitation.—The average was slightly above the normal; greatest monthly, 5.64, at Las Vegas; least monthly, 0.10, at Los Lunas.—*H. B. Hersey, Observer, Weather Bureau, Santa Fe, director.*

NEW YORK.

Temperature.—The mean was normal; maximum, 98, at Eden Center, 8th; minimum, 36, at Angelica, 24th; greatest monthly range, 58, at Eden Center; least monthly range, 30, at Dunkirk.

Precipitation.—The average was 0.91 below the normal; greatest monthly, 7.09, at Phenix; least monthly, 1.16, at Oswego.

Wind.—Prevailing direction, southwest.—*Prof. E. A. Fuertes, Dean of the College of Civil Engineering, Cornell University, Ithaca, director; R. M. Hardinge, Observer, Weather Bureau, assistant.*

NORTH CAROLINA.

Temperature.—The mean was 0.4 above the normal; maximum, 104, at Chapel Hill, 15th, 16th, and 17th; minimum, 52, at Highlands, 4th; greatest monthly range, 51, at Douglas; least monthly range, 22, at Hatteras.

Precipitation.—The average was 1.52 below the normal; greatest monthly, 8.30, at Wilmington; least monthly, 1.44, at Oak Ridge.

Wind.—Prevailing direction, southwest.—*Dr. Herbert B. Battle, Raleigh, director; C. F. von Herrmann, Observer, Weather Bureau, assistant.*

NORTH DAKOTA.

Temperature.—The mean was 0.7 above the normal; maximum, 112, at Medora, 20th; minimum, 35, at Napoleon, 28th; greatest monthly range, 70, at Medora; least monthly range, 44, at Sheyenne.

Precipitation.—The average was 0.82 below the normal; greatest monthly, 4.59, at Wild Rice; least monthly, 0.53, at Medora.

Wind.—Prevailing direction, northwest.—*W. H. Fallon, Observer, Weather Bureau, Bismarck, director.*

OREGON.

Temperature.—The mean was 1.8 below the normal; maximum, 110, at Newbridge, 31st; minimum, 31, at Sparta, 2d; greatest monthly range, 74, at Newbridge; least monthly range, 24, at Gardiner.

Precipitation.—The average was 0.48 below the normal; greatest monthly, 1.99, at Sparta; least monthly, 0.00, at several stations.

Wind.—Prevailing direction, north.—*Hon. H. E. Hayes, Master State Grange, Portland, director; B. S. Pague, Local Forecast Official, Weather Bureau, assistant.*

PENNSYLVANIA.

Temperature.—The mean was 0.9 above the normal; maximum, 102, at Aqueduct and Quakertown, 26th; minimum, 39, at Dyberry, 11th; greatest monthly range, 60, at Lewisburg; least monthly range, 36, at Philadelphia.

Precipitation.—The average was 1.12 below the normal; greatest monthly, 6.27, at Clarion; least monthly, 1.58, at York.

Wind.—Prevailing direction, west.—*Under direction of the Franklin Institute, Philadelphia; W. P. Tatham, director; H. L. Ball, Observer, Weather Bureau, assistant.*

SOUTH CAROLINA.

Temperature.—Maximum, 104, at Society Hill, 6th, at Kitchings Mills, 17th, at Cheraw, 7th, and at Brewer Mine, 16th; minimum, 60, at Kingstree, 1st, and at Greenville, 29th.

Precipitation.—Greatest monthly, 7.75, at Trial; least monthly, 1.35, at Wateree.

Wind.—Prevailing direction, southwest.—*J. H. Harmon, Observer, Weather Bureau, Columbia, director.*

SOUTH DAKOTA.

Temperature.—The mean was 2.3 below the normal; maximum, 107, at Hotch City, 24th, and at Onida, 23d; minimum, 37, at Cross, 8th; greatest monthly range, 65, at Hotch City; least monthly range, 40, at Mellette.

Precipitation.—The average was 0.63 above the normal; greatest monthly, 4.80, at Fort Sully; least monthly, 0.68, at Brookings.

Wind.—Prevailing direction, southeast.—*S. W. Glenn, Local Forecast Official, Weather Bureau, Huron, director.*

TENNESSEE WEATHER AND CROP SERVICE.

Temperature.—The mean was 2.3 above the normal; maximum, 100, at Milan, 29th; minimum, 56, at Hohenwald, 4th, and at Johnson City, 11th; greatest monthly range, 40, at Milan; least monthly range, 22, at Bethel Springs.

Precipitation.—The average was 0.87 below the normal; greatest monthly, 7.04, at Rugby; least monthly, 0.71, at Brownsville.

Wind.—Prevailing direction, southwest.—*J. B. Marbury, Local Forecast Official, Weather Bureau, Nashville, director.*

TEXAS.

Temperature.—The mean was 0.3 above the normal; maximum, 113, at Corsicana (b), 31st; minimum, 55, at Houston, 10th; greatest monthly range, 51, at Fort Hancock; least monthly range, 18, at Boerne.

Precipitation.—The average was 1.36 below the normal; greatest monthly, 3.45, at Childress; least monthly, 0.00, at Menardville and Twohig.

Wind.—Prevailing direction, south.—*D. D. Bryan, Galveston, director; I. M. Cline, Local Forecast Official, Weather Bureau, assistant.*

UTAH.

Temperature.—Maximum, 110, at Saint George, 18th; minimum, 24, at Scofield, 18th; greatest monthly range, 69, at Saint George; least monthly range, 47, at Salt Lake City.

Precipitation.—Greatest monthly, 4.50, at Scofield; least monthly, trace, at Cisco.

Wind.—Prevailing direction, southwest.—*G. N. Salisbury, Observer, Weather Bureau, Salt Lake City, director.*

VIRGINIA.

Temperature.—Maximum, 104, at Nottoway, 8th; minimum, 47, at Lexington, 28th; greatest monthly range, 52, at Nottoway; least monthly range, 27, at Birdnest.

Precipitation.—Greatest monthly, 9.15, at Saluda; least monthly, 1.14, at Blacksburg.

Wind.—Prevailing direction, southwest.—*Dr. E. A. Craighill, Lynchburg, director; J. N. Ryker, Observer, Weather Bureau, assistant.*

WEST VIRGINIA.

Temperature.—Maximum, 98, at New Cumberland, 26th; minimum, 42, at Davis, 11th; greatest monthly range, 48, at New Cumberland and Spencer; least monthly range, 30, at Pleasant Hill and Weston.

Precipitation.—Greatest monthly, 5.95, at Martinsburg; least monthly, 0.97, at Kingwood.

Wind.—Prevailing direction, southwest.—*W. W. Dent, Observer, Weather Bureau, Parkersburg, director.*

WISCONSIN.

Temperature.—The mean was 1.5 above the normal; maximum, 104, at Osceola, 24th; minimum, 39, at Butternut and Valley Junction, 27th, and at Crandon, 8d, 10th, and 22d.

Precipitation.—The average was 1.00 above the normal; greatest monthly, 7.94, at Westfield; least monthly, 1.21, at Grantsburg.

Wind.—Prevailing direction, southwest.—*W. L. Moore, Local Forecast Official, Weather Bureau, Milwaukee, director.*

WYOMING.

Temperature.—Maximum, 104, at Wheatland, 23d; minimum, 34, at Lusk, 18th; greatest monthly range, 68, at Lusk; least monthly range, 45, at Cheyenne.

Precipitation.—Greatest monthly, 1.75, at Sundance; least monthly, 0.07, at Fort Washakie.

Wind.—Prevailing direction, west.—*E. M. Ravenscraft, Observer, Weather Bureau, Cheyenne, director.*

METEOROLOGICAL TABLES.

Meteorological record of voluntary and other co-operating observers, July, 1893.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean.			Max.	Min.	Mean.	
Alabama.	0	0	0	Ins.	Arizona—Cont'd.	0	0	0	Ins.
Alco	97	67	81.5	.....	Fort Grant	104	59	77.9	4.24
Bermuda*†	96	70	81.5	.....	Fort Huachuca	101	55	75.6	4.42
Birmingham†	98	67	83.6	2.44	Gila Bend*†	112	74	94.9	1.45
Brewton†	102	60	81.4	4.25	Gila Bend*‡	118	65	95.8	1.20
Camden*†	99	75	84.9	3.48	Holbrook†	99	49	74.0	1.65
Citronelle†	93	70	81.7	3.08	Maricopa*§	112	80	94.6	0.68
Claiborne Landing†	.....	.....	.....	1.10	Mount Huachuca†	103	52	76.2	4.46
Cordova†	.....	.....	.....	3.69	Natural Bridge†	.....	.....	.....	2.43
Decatur†	.....	.....	.....	3.68	Oracle†	100	62	77.8	.....
Decatur†	98	61	79.0	3.52	Oro	.....	.....	.....	3.93
Demopolis†	.....	.....	.....	4.73	Pantano*§	105	70	85.4	1.55
Elba*†	97	74	82.4	4.41	Payson*†	91	38	74.5	0.97
Eufaula†	99	70	82.6	5.12	Peoria†	109	70	91.6	1.56
Eufaula†	.....	.....	.....	7.39	Phoenix†	116	65	91.7	3.20
Florence†	.....	.....	.....	2.85	Red Rock*†	110	75	93.6	3.05
Florence†	97	62	79.7	2.71	Reymert†	105	65	83.1	2.76
Fort Deposit†	100	69	83.0	4.01	Rye†	.....	.....	.....	1.08
Gadsden†	.....	.....	.....	2.63	St. Helena R'h*†	95	64	75.6	4.53
Greensboro†	98	68	80.7	2.20	San Carlos	108	59	85.0	0.80
Healing Springs†	98	62	81.2	12.22	San Simon*§	110	78	90.3	1.11
Highland Home†	96	69	81.2	6.18	Show Low	.....	.....	.....	1.16
Livingston†	100	68	82.3	3.89	Signal†	109	64	89.7	0.78
Lynn†	.....	.....	.....	3.82	Texas Hill*§	116	82	95.9	0.40
Marion†	100	68	82.6	4.73	Tombstone†	103	55	79.6	4.01
Mayville†	99	69	83.2	1.79	Tucson†	108	70	89.0	2.44
Mount Willing†	99	68	83.2	1.81	Tucson*§	105	74	89.1	2.52
Newbern†	96	72	82.8	5.09	Walnut Grove†	.....	.....	.....	1.66
Newburg†	103	62	83.4	1.90	Walnut Ranch*†	97	63	75.0	2.53
Newton†	98	68	83.4	4.58	Whipple Barracks	95	42	70.5	1.31
Opelika†	99	68	83.4	2.07	Wilgus†	.....	.....	.....	6.47
Ozanna*†	98	67	80.0	1.91	Yuma*§	110	80	95.2	0.40
Pine Apple†	102	63	82.3	1.46	Arkansas.	.....	.....	.....	3.06
Pushmataha†	93	71	81.1	4.48	Arkadelphia†	.....	.....	.....	2.30
Rock Mills	97	64	81.1	6.70	Arkansas City†	.....	.....	.....	2.30
Belma†	.....	.....	.....	5.36	Ashdown†	99	65	80.5	1.55
Burdavant†	.....	.....	.....	4.80	Bee Branch†	100	63	79.6	1.11
Talladega†	.....	.....	.....	1.67	Brinkley†	96	65	80.4	4.11
Tallassee Falls†	.....	.....	.....	1.31	Camden†	.....	.....	.....	2.85
Thomasville†	98	68	82.4	2.80	Camden†	95	66	81.1	3.73
Tuscaloosa†	.....	.....	.....	1.68	Conway*†	93	69	79.0	1.40
Tusculum†	99	71	81.1	2.56	Corning†	97	61	80.0	2.80
Tusculum†	100	65	82.9	2.29	Dallas†	96	60	79.2	3.55
Union Springs*†	101	62	82.6	3.96	Dardanelle†	.....	.....	.....	3.55
Union Springs†	99	67	81.6	1.52	Fayetteville†	96	60	77.2	4.58
Uniontown†	98	70	82.4	6.11	Forrest†	98	67	82.0	4.40
Valley Head†	95	64	77.9	2.70	Fulton†	.....	.....	.....	0.77
Warrior†	.....	.....	.....	1.72	Gaines Landing†	.....	.....	.....	2.22
Wilsonville†	.....	.....	.....	1.45	Hamburg	96	66	81.0	3.39
Alaska.	.....	.....	.....	.....	Helena†	.....	.....	.....	5.31
Killisnoo†	80	47	57.1	8.15	Helena†	101	64	83.0	3.82
Metlakatla†	80	40	57.2	7.18	Hot Springs	103	60	82.0	6.82
Arizona.	.....	.....	.....	.....	Keesee Ferry†	99	61	78.6	4.75
Antelope Valley†	.....	.....	.....	1.95	Kirby†	95	62	79.7	3.70
Benson*§	105	70	86.1	2.88	Lonoke*†	97	70	83.3	2.25
Bisbee*†	96	60	73.8	5.20	Madding*†	.....	.....	.....	8.46
Buckeye†	118	62	88.7	0.70	Malvern†	97	65	79.6	2.41
Calabasas†	104	64	80.6	3.04	Marcella†	102	67	83.7	4.82
Casa Grande*†	111	83	91.2	1.72	Marshall*†	101	59	81.0	2.95
Chiricahua Mts†	.....	.....	.....	3.87	Meibourne†	99	63	81.4	4.29
Crittenden*†	105	61	77.8	5.10	Mount Nebo†	91	61	76.2	2.40
Dragon†	.....	.....	.....	3.31	New Gascony*†	33	61	81.8	2.73
Dragon Summit*†	102	70	83.4	3.92	Newport†	.....	.....	.....	4.35
Dudleyville†	109	65	85.8	0.71	Newport†	101	66	82.2	4.33
Farley's Camp	104	74	89.1	3.62	Newport†	95	62	79.6	3.84
Florence†	109	68	89.8	3.03	Osceola†	95	65	81.3	0.69
Fort Apache	98	51	73.4	2.57	Osark†	102	62	82.8	0.51
Fort Bowie†	101	60	78.2	3.69	Pine Bluff†	100	70	83.8	0.03

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean	
Arkansas—Cont'd.	0	0	0	Ins.	California—Cont'd.	0	0	0	Ins.
Prescott†	96	68	81.1	1.64	Emigrant Gap*§	85	50	67.9	0.00
Rison†	101	66	82.8	3.01	Evergreen	.....	.....	.....	0.00
Rogers†	.....	.....	.....	7.31	Exeter*§	104	75	83.6	0.00
Russellville†	100	62	81.6	2.60	Fall Brook*†	93	54	68.7	0.13
Stuttgart†	99	60	81.4	2.14	Farmington*§	106	68	82.8	0.00
Texarkana†	99	69	83.4	2.30	Felton*§	105	46	66.7	0.00
Warm Springs*†	98	72	81.3	2.75	Fernando*§	97	50	72.0	0.00
Washington†	95	68	81.1	2.25	Florence*§	83	60	73.2	0.00
Winslow*†	85	66	76.0	2.19	Florin*§	105	53	71.9	0.00
California.	.....	.....	.....	.....	Folsom City*§	107	64	82.8	0.00
Agnew†	90	45	64.4	0.00	Folsom City*§	106	65	79.9	T.
Alcalde*§	106	59	88.8	0.00	Fort Bidwell	97	39	67.2	0.50
Anaheim*§	89	57	71.7	0.00	French Corral	100	52	76.0	0.00
Anderson*†	104	57	76.7	0.14	Fresno*§	105	59	84.1	0.00
Antioch*§	100	61	76.0	0.00	Fruto*§	105	65	83.3	0.00
Aptos*§	82	47	59.5	0.00	Galt*§	105	62	80.7	0.00
Arca†	70	43	59.4	0.00	Georgetown†	98	46	73.4	T.
Arlington Heights	100	52	75.4	0.08	Gilroy*§	103	53	69.1	0.00
Athlone*§	107	65	84.2	0.00	Girard*§	97	60	75.3	1.00
Auburn*§	103	59	78.3	0.00	Glen Ellen*§	98	55	71.1	0.00
Bakersfield*§	108	70	87.9	0.00	Goshen*§	106	64	81.2	0.00
Bakersfield†	106	50	78.5	0.00	Grass Valley†	.....	.....	.....	T.
Ballast Point L. H.	.....	.....	.....	0.00	Gridley†	112	64	80.0	T.
Beaumont*§	99	61	79.9	0.00	Haywards*§	87	55	64.3	0.00
Belmont*§	88	60	73.5	0.00	Healdsburg*†	96	46	67.0	0.00
Berendo*§	112	70	89.3	0.00	Hollister*§	93	46	64.0	0.00
Berkeley	102	60	81.3	0.00	Hornbrook*§	100	56	74.2	0.95
Bishop Creek*§	107	63	84.7	1.05	Hydesville†	71	38	58.0	0.00
Boca*§	72	39	59.9	0.00	Independence†	101	49	74.8	0.77
Borden*§	88	64	83.0	0.00	Indio*§	116	75	94.8	0.05
Boulder Creek*§	102	47	64.3	0.00	Ione*§	105	60	80.2	0.00
Brentwood*§	101	61	77.5	0.00	Iowa Hill*†	98	56	74.8	T.
Brighton*§	110	60	82.4	0.00	Jackson	95	44	73.8	0.04
Byron*§	108	58	77.8	0.00	Julian†	97	56	74.0	1.65
Caliente*§	107	68	82.7	0.00	Keeler*§	98	68	77.6	0.41
Calistoga*§	100	56	78.6	0.00	Keene*§	100	55	75.9	1.05
Campo Seco	.....	.....	.....	0.00	Kennedy Gold	.....	.....	.....	0.00
C. Mendocino L. H.	.....	.....	.....	0.00	Mine*†	103	47	73.4	0.00
Capitola*§	82	52	67.5	0.00	King City*§	94	50	65.9	0.00
Castroville*§	72	55	59.9	0.00	Kingsburg*§	108	68	85.8	0.00
Centerville*†	96	60	68.0	0.00	Knights Landing*§	100	55	77.9	0.00
Chico*§	105	60	77.1	0.00	Kono Taves	94	52	74.2	0.00
Chino*§	97	63	78.7	0.26	Lagrange*§	110	54	82.4	0.00
Cisco*§	88	30	61.7	0.00	Lathirop*§	101	60	78.0	0.00
Citrus*§	110	60	81.2	0.40	Laurel*§	102	51	68.4	0.00
Claremont†	95	49	71.4	0.20	Lemoore*§	108	62	83.5	0.00
Colfax*§	102	50	73.9	0.00	Lick Observatory†	87	41	67.9	0.00
Colton*§	101	58	77.5	0.30	Lime Point L. H.	.....	.....	.....	0.00
Colusa†	100	54	76.4	0.00	Livermore*§	100	54	70.2	0.00
Corning†	108	60	80.7	0.00	Livingston*§	110	60	83.9	0.00
Crescent City	.....	.....	.....	0.03	Lodi	99	51	73.4	0.00
Crescent City L. H.	.....	.....	.....	0.00	Long Beach*§	85	52	66.6	.....
Crofton*§	100	60	78.7	0.18	Los Angeles*§	100	60	73.2	0.00
Davisville*§	105	60	79.0	0.00	Los Banos*§	105	49	73.1	0.00
Davisville†	101	52	74.7	T.	Los Gatos*§	100	54	71.6	0.00
Delano*§	106	65	85.0	0.00	Los Gatos†	93	45	65.6	0.00
Delta*§	105	60	79.4	T.	Mammoth Tank*§	115	81	99.0	0.00
Downey*§	92	58	72.7	0.25	Mare Island L. H.	.....	.....	.....	0.00
Dry Creek*†	.....	62	79.6	.....	Mariposa*†	104	62	79.4	T.
Drytown	103	47	74.6	0.00	Martinez*§	86	46	61.6	0.00
Duarte	98	53	75.0	0.49	Marysville*§	114	56	76.8	0.00
Dunnigan*§	104	66	79.6	0.00	Menlo Park*§	88	50	66.2	0.00
Dunsmuir*§	98	49	70.0	0.20	Merced*§	108	57	79.5	0.00
East Brother L. H.	.....	.....	.....	0.00	Middletown*†	101	55	74.9	0.00
Edgewood*§	90	50	67.3	0.66	Milton (near)*†	104	61	77.8	0.02
Eldorado*§	108	58	79.8	0.00	Modesto*§	106	70	85.6	0.00
Elmira*§	107	58	76.6	0.00	Mohave*§	106	66	87.6	1.04
El Verano*§	98	57	71.9	0.00	Mokelumne Hill*§	.....	62†	77.6†	.....